

AIA Continuing Education – Masonry Courses

York Building Products offers a variety of educational opportunities for designers. There is no program charge, and with your input on menu selection, York Building Products will provide the meal. To schedule a presentation, please contact:

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ARCHITECTURAL ENHANCEMENTS: AESTHETIC OPTIONS FOR CONCRETE MASONRY: (1 hr. LU)

This presentation identifies the performance characteristics of concrete masonry wall systems and compares available unit design options for form and function and how mortar tooling and bond patterns enhance the performance and the aesthetics of design, and concludes with examples of how these design elements have been incorporated into completed, award winning projects.

CONCRETE MASONRY OVERVIEW: PRODUCTS, APPLICATIONS, DESIGN AND CONSTRUCTION CONSIDERATIONS: (1 hr. LU, HSW)

This presentation covers a basic overview of concrete masonry systems and materials; including how concrete masonry units are manufactured, masonry terminology, masonry mortars, masonry grouts, and construction practices and requirements.

CRACK CONTROL IN CONCRETE MASONRY WALLS: (1 hr. LU, HSW)

This important presentation compares the primary causes of cracking in concrete masonry and the means to minimize the potential for cracking. It addresses the proper application of empirical crack control measures and the use of control joints and horizontal reinforcement to minimize cracking. It concludes with a review of applicable details, including banding (mixing courses of clay and concrete masonry).

FIRE SAFETY WITH CONCRETE MASONRY PRODUCTS: (1 hr. LU, HSW)

This presentation reviews related fire statistics and code trends and then defines and applies the concepts of balanced design. We will distinguish the code approved methods of evaluating fire ratings for concrete masonry and utilize the related calculation method for determining fire resistance rating of concrete masonry assemblies.

MOISTURE PENETRATION RESISTANCE OF CONCRETE MASONRY: (1 hr. LU, HSW)

This presentation provides a general overview of strategies to provide moisture-resistant concrete masonry assemblies, including material requirements and quality design and construction practices. A brief overview of mold and mold abatement is also included.

SOUND ABATEMENT AND NOISE CONTROL USING CONCRETE MASONRY: (1 hr. LU, HSW)

This presentation introduces the concepts of mitigating unwanted noise using concrete masonry assemblies and systems. Topics covered include a basic review of sound and noise, what requirements are mandated by building codes to address sound control, how to determine the sound transmission class and inside-outside transmission classification of building assemblies, noise reduction coefficients, and proper methods of detailing concrete masonry systems to maximize its effectiveness as a sound barrier.

THERMAL PERFORMANCE OF CONCRETE MASONRY SYSTEMS: (1 hr. LU, HSW)

This trending presentation explains the role of thermal mass in building design, building energy efficiency, and occupant comfort and discusses the role R-values and U-factors play in the design of energy-efficient building envelopes and code compliance. It examines the design options in concrete masonry construction for compliance with the International Energy Conservation Code (IECC), and evaluates various strategies to maximize energy performance, including placement and types of insulation, with concrete masonry systems.

UNDERSTANDING MASONRY MORTARS: (1 hr. LU, HSW)

This mortar presentation reviews the differences between Cement, Concrete, Masonry Cement and Mortar. In addition to becoming familiar with the types and components of mortar, we review the details of ASTM C270 "Standard Specification for Mortar for Unit Masonry" and ASTM C780 "Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry", and their respective use and application in the specifications and during construction. It concludes with the aesthetic impact of mortar color and tooling and proper clean down procedures.

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